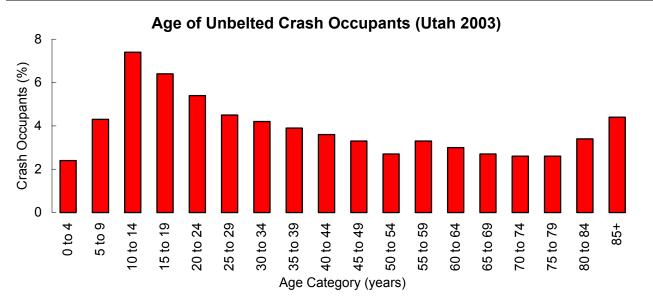
Occupant Protection 2003

OCCUPANT PROTECTION

Failure to "buckle up" contributes to more fatalities than any other traffic-safety-related behavior.

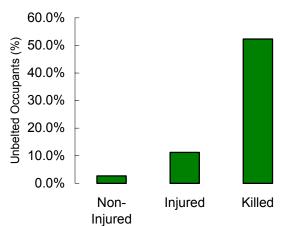
Did you know that in 2003 . . .

- Unbelted crash occupants were 23 times more likely to die in a crash than belted crash occupants.
- An unbelted crash occupant was killed in Utah every 3 days.



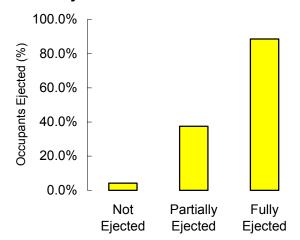
- The highest percentage of unbelted crash occupants were aged 10 to 14 years (7.4%)
- In addition, 83.3% of 10 to 14 year-olds that were killed in a crash were unbelted.

Injury Severity of Unbelted Occupants



- The above graph shows that 52.3% of crash occupants killed in a crash were unbelted.
- The majority of persons who survived a crash reported wearing a seatbelt.

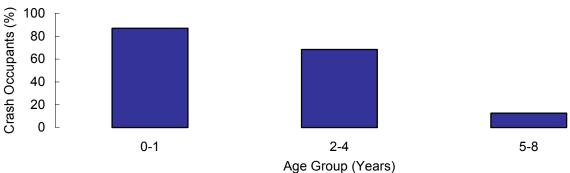
Ejection and Seatbelt Use



 The above graph shows that 88.6% of crash occupants ejected from a motor vehicle were unbelted. Only 4.2% of crash occupants not ejected from a motor vehicle were unbelted.

OCCUPANT PROTECTION

Percent of Children in Crashes Using Child Safety Seats (Aged 0 to 8 years)



- Only 64.8% of 2 to 4 year olds, and 12.6% of 5 to 8 year olds were reported as being in a child safety seat at the time of the crash.
- The decrease in child safety seat use for children aged 2 to 8 years is concerning. The National Highway Traffic Safety Administration recommends that older children ride in belt-positioning booster seats until they are approximately 80 pounds and can use an adult-size lap and shoulder belt system. The percentages of child safety seat use in the above graph indicate that children are often moved to adult-sized seatbelts prematurely.

Child Safety Seat Recommendations:

- Infants should be placed in a rear-facing safety seat until they are at least 20 pounds AND one year of age.
- NEVER place a rear-facing child safety seat in the front seat of a vehicle with a passenger side air bag.
- Children over one year of age weighing 20-40 pounds should ride in forward facing child safety seats.
- Older children (approximately 4-8 years of age) should ride in belt-positioning booster seats until they are approximately 80 pounds and can use an adult-size lap and shoulder belt system.
- Avoid using secondhand child safety seats especially if it does not have the original instruction booklet, if
 it has been used in a crash, it is does not have the manufacturer's date and model number on it, or if it is
 more than six years old.
- If your car has lap/shoulder combination belts, it could be critical to use a locking clip to properly secure your safety seat to the car. Consult the vehicle owner's manual.
- The safest place for any child aged 12 and under is in the back seat of the vehicle.

Seatbelt Recommendations:

- Always use both the lap and shoulder belt. When worn properly, the shoulder belt should fit across the collar bone and the lap belt should fit low over the hips.
- Never place the shoulder strap under your arm or behind your back.
- Use belt-positioning booster seats for children who have outgrown their toddler safety seat (at about 4 years of age and 40 pounds). Booster seats help position an adult-size seatbelt for a safer fit on children.

Safety Restraint Laws (Effective July 1, 2000):

- Utah law requires all motor vehicle occupants to be wearing a seatbelt when traveling in a motor vehicle. This is a secondary law which means a person may be issued a citation and subject to a \$45 fine only when the police officer has stopped the vehicle for another reason.
- The law is primary for drivers and passengers under age 19 years.
 - ⇒ Children age 4 years and under must ride in an approved child safety seat; and
 - ⇒ Children aged 5 to 19 years must ride in an approved child safety seat or safety belt.

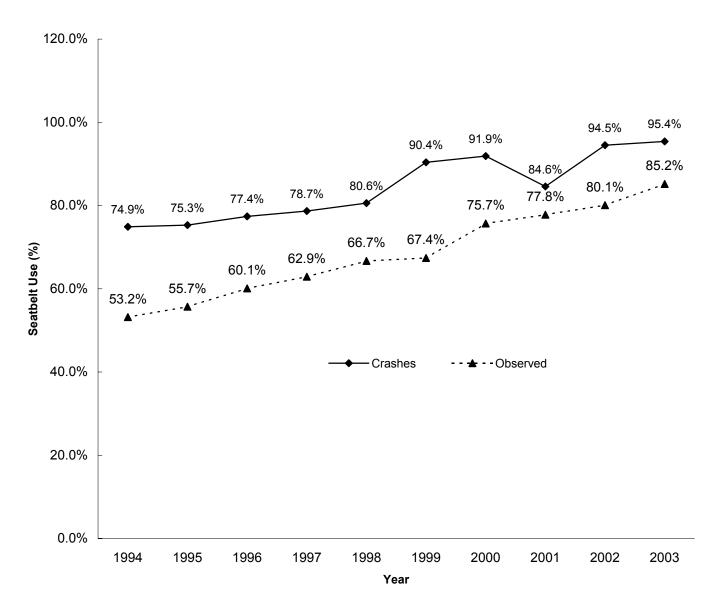
This primary law means a person may be issued a citation and subject to a fine of not more than \$45 if a law enforcement officer notices children are not properly restrained.

Section 2: Occupant Protection

Section 2: Occupant Protection 2003	
Trends	
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<u>Trends</u>

Seatbelt Use of Drivers and Front Seat Passengers In Crashes and Observational Studies (Utah 1994-2003)



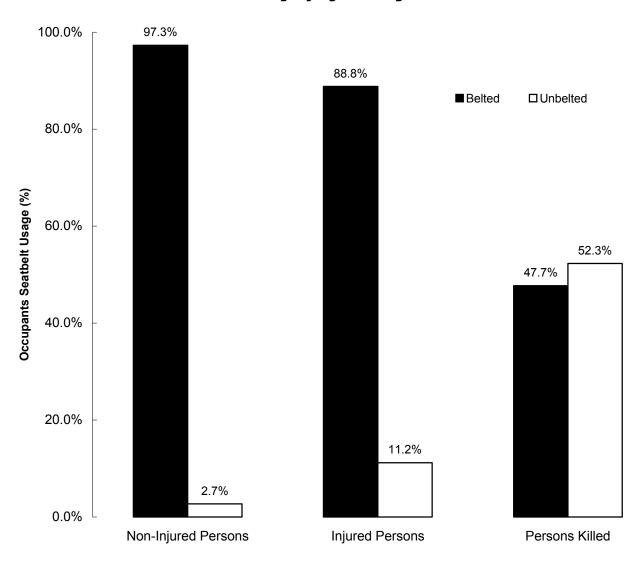
- Historically, there have been differences between self-reported seatbelt use of people in crashes, and seatbelt
 use that is observed by researchers in observational studies.
- The difference between self-reported seatbelt use of people in crashes, and observed seatbelt use may be due to over-reporting by the people involved in crashes.
- The above graph compares the self-reported and observed percentage of seatbelt use by drivers and frontseat passengers.
- While there is some year-to-year variation, the ten-year trend shows an increase of seatbelt use by drivers and front-seat passengers in both crash and observational studies.
- In 2003, the observational seatbelt use increased to 85.2% from 80.1% in 2002; a 6% increase.
- The 2003 self-reported seatbelt use rate of people in crashes was 95.4%; a 1% increase from 2002.

Seatbelt Use by Injury Severity (Utah 2003)

	Persons											
	Non-Injured	Persons	Injured F	Persons	Persons	s Killed	Total Persons					
Seatbelt Use	#	%	#	%	#	%	#	%				
Belted	87,954	97.3%	20,691	88.8%	103	47.7%	108,748	95.4%				
Unbelted	2,480	2.7%	2,616	11.2%	113	52.3%	5,209	4.6%				
Total	90,434	100.0%	23,307	100.0%	216	100.0%	113,957	100.0%				

NOTE: Seatbelt use may be inflated due to over-reporting by the people involved in crashes.

Seatbelt Use by Injury Severity (Utah 2003)



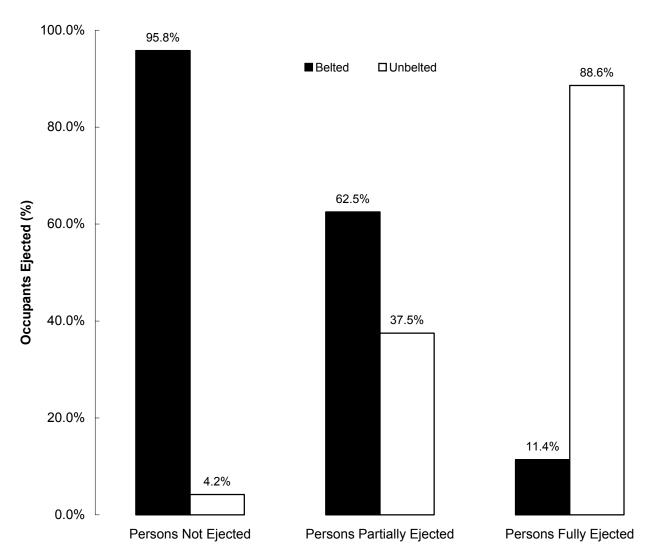
- The majority of persons who survived a crash reported wearing a seatbelt; non-injured persons (97.3%), injured persons (88.8%).
- In contrast, less than half (47.7%) of the persons killed in a crash were belted.
- In fact, unbelted crash occupants were 23 times more likely to be killed than belted crash occupants.

Ejection and Seatbelt Use (Utah 2003)

	Persons											
	Persons No	t Ejected	Persons Parti	ally Ejected	Persons Ful	ly Ejected	Total Persons					
Seatbelt Use	#	%	#	%	#	%	#	%				
Belted	91,324	95.8%	60	62.5%	43	11.4%	91,427	95.4%				
Unbelted	4,030	4.2%	36	37.5%	334	88.6%	4,400	4.6%				
Total	95,354	100.0%	96	100.0%	377	100.0%	95,827	100.0%				

NOTE: Seatbelt use may be inflated due to over-reporting by the people involved in crashes.

Ejection and Seatbelt Use (Utah 2003)



- The above table and graph show an inverse relationship between ejection from a motor vehicle and seatbelt use.
- The majority of crash occupants ejected from a motor vehicle (88.6%) were reported as being unbelted, compared to only 4.2% of crash occupants not ejected from a motor vehicle.

Seatbelt Use by Age of Crash Occupants (Utah 2003)

Age Seatbelt Use Mon-Injured Persons Injured Persons Persons HI w % # w 6 % 9 5 68 80 6% 1 month of the control of the contr				Р	ersons					
Reg			Non-Injured	l Persons	Injured P	ersons	Killed	Total Pe	ersons	
Delted	Age	Seatbelt Use								
5-9 Belted 3,134 98.0% 563 85.0% 4 66.7% 3,701 95.7% 10-14 Belted 3,061 95.9% 665 80.6% 1 16.7% 3,227 92.6% 10-14 Belted 131 4.1% 160 19.4% 5 83.3% 296 7.4% 15-19 Belted 17,544 96.1% 3,750 83.6% 11 34.4% 21,305 93.6% 20-24 Belted 14,544 96.8% 3,257 86.5% 10 35.7% 17,811 94.6% 25-29 Belted 9,145 97.2% 2,162 89.2% 17 65.4% 11,324 95.5% 30-34 Belted 6,505 97.7% 1,693 89.7% 5 41.7% 8,203 95.8% 35-39 Belted 5,231 97.8% 1,365 90.6% 5 50.0% 6,601 96.4% 40-44 Belted 5,231		Belted	6,112	98.6%	900	91.9%	6	60.0%	7,018	97.6%
Unbelted		Unbelted	89	1.4%	79	8.1%	4	40.0%	172	2.4%
10-14	5-9	Belted	3,134	98.0%	563	85.0%	4	66.7%	3,701	95.7%
Unbelted		Unbelted	64	2.0%	99	15.0%	2	33.3%	165	4.3%
15-19	10-14	Belted	3,061	95.9%	665	80.6%	1	16.7%	3,727	92.6%
Unbelted 710 3.9% 735 16.4% 21 65.6% 1,466 6.4% 20-24 Belted 14,544 96.8% 3,257 86.5% 10 35.7% 17,811 94.6% 10-25-29 Belted 9,145 97.2% 2,162 89.2% 17 65.4% 11,324 95.5% 10-25-29 10-25-29 Belted 6,505 97.7% 1,693 89.7% 5 41.7% 8,203 95.8% 10-25-29		Unbelted	131	4.1%	160	19.4%	5	83.3%	296	7.4%
Delted 14,544 96.8% 3,257 86.5% 10 35.7% 17,811 94.6% 10,10 14,544 96.8% 3.2% 509 13.5% 18 64.3% 1,010 5.4% 25.29 25.29 2616d 9,145 97.2% 2,162 89.2% 17 65.4% 11,324 95.5% 10,10 11,324 95.5% 10,10 11,324 95.5% 10,10 11,324 95.5% 10,10 11,324 95.5% 10,10 11,324 95.5% 10,10 11,324 95.5% 10,10 11,324 95.5% 10,10 11,324 95.5% 10,10 12,10 11,324 95.5% 11,333 15,10 10	15-19	Belted	17,544	96.1%	3,750	83.6%	11	34.4%	21,305	93.6%
Unbelted 483 3.2% 509 13.5% 18 64.3% 1,010 5.4% 25-29 Belted 9,145 97.2% 2,162 89.2% 17 65.4% 11,324 95.5% 10.00 11,324 95.5% 10.00 10.00 11,324 95.5% 10.00 1		Unbelted	710	3.9%	735	16.4%	21	65.6%	1,466	6.4%
Selted	20-24	Belted	14,544	96.8%	3,257	86.5%	10	35.7%	17,811	94.6%
Unbelted 262 2.8% 262 10.8% 9 34.6% 533 4.5% 30-34 Belted 6,505 97.7% 1,693 89.7% 5 41.7% 8,203 95.8% Unbelted 154 2.3% 195 10.3% 7 58.3% 356 4.2% 10.0% 10.0% 5 50.0% 6,601 96.1% 10.0% 10.0% 5 50.0% 6,601 96.1% 10.0% 1		Unbelted	483	3.2%	509	13.5%	18	64.3%	1,010	5.4%
Belted G,505 97.7% 1,693 89.7% 5 41.7% 8,203 95.8%	25-29	Belted	9,145	97.2%	2,162	89.2%	17	65.4%	11,324	95.5%
Unbelted 154 2.3% 195 10.3% 7 58.3% 356 4.2% 35-39 Belted 5,231 97.8% 1,365 90.6% 5 50.0% 6,601 96.1% Unbelted 120 2.2% 142 9.4% 5 50.0% 267 3.9% 40-44 Belted 5,230 97.9% 1,333 91.8% 4 30.8% 6,567 96.4% Unbelted 114 2.1% 119 8.2% 9 69.2% 242 3.6% 45-49 Belted 4,408 97.9% 1,191 93.0% 5 50.0% 5,604 96.7% 45-49 Unbelted 94 2.1% 90 7.0% 5 50.0% 189 3.3% 50-54 Belted 3,652 98.1% 1,017 95.0% 4 66.7% 4,673 97.3% 4,673 9		Unbelted	262	2.8%	262	10.8%	9	34.6%	533	4.5%
Belted 5,231 97.8% 1,365 90.6% 5 50.0% 6,601 96.1%	30-34	Belted	6,505	97.7%	1,693	89.7%	5	41.7%	8,203	95.8%
Unbelted 120 2.2% 142 9.4% 5 50.0% 267 3.9% 40-44 Belted 5,230 97.9% 1,333 91.8% 4 30.8% 6,567 96.4% 45-49 Belted 4,408 97.9% 1,191 93.0% 5 50.0% 5,604 96.7% 40-44 Unbelted 94 2.1% 90 7.0% 5 50.0% 189 3.3% 50-54 Belted 3,652 98.1% 1,017 95.0% 4 66.7% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,673 97.3% 4,674 96.7% 4,673 97.3% 4,674 96.7% 4,674 4,674 96.7% 4,674 4,6		Unbelted	154	2.3%	195	10.3%	7	58.3%	356	4.2%
40-44 Belted 5,230 97.9% 1,333 91.8% 4 30.8% 6,567 96.4% Unbelted 114 2.1% 119 8.2% 9 69.2% 242 3.6% 45-49 Belted 4,408 97.9% 1,191 93.0% 5 50.0% 5,604 96.7% 50-54 Belted 3,652 98.1% 1,017 95.0% 4 66.7% 4,673 97.3% 55-59 Belted 2,684 98.0% 785 93.5% 5 38.5% 3,474 96.7% 55-59 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 60-64 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% Unbelted 39 2.0% 35 5.8% 5 55.6% 79 3.0% 65-69 Belted 1,418 98.2% 425 95.7%	35-39	Belted	5,231	97.8%	1,365	90.6%	5	50.0%	6,601	96.1%
Unbelted		Unbelted	120	2.2%	142	9.4%	5	50.0%	267	3.9%
45-49 Belted 4,408 97.9% 1,191 93.0% 5 50.0% 5,604 96.7% Unbelted 94 2.1% 90 7.0% 5 50.0% 189 3.3% 50-54 Belted 3,652 98.1% 1,017 95.0% 4 66.7% 4,673 97.3% 55-59 Belted 2,684 98.0% 785 93.5% 5 38.5% 3,474 96.7% 60-64 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 65-69 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 65-69 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% 75-79 Belted 969 98.0% 283 <td>40-44</td> <td>Belted</td> <td>5,230</td> <td>97.9%</td> <td>1,333</td> <td>91.8%</td> <td>4</td> <td>30.8%</td> <td>6,567</td> <td>96.4%</td>	40-44	Belted	5,230	97.9%	1,333	91.8%	4	30.8%	6,567	96.4%
Unbelted 94 2.1% 90 7.0% 5 50.0% 189 3.3% 50-54 Belted 3,652 98.1% 1,017 95.0% 4 66.7% 4,673 97.3% 100 128 2.7% 1.9% 54 5.0% 2 33.3% 128 2.7% 1.9% 54 5.0% 2 33.3% 128 2.7% 1.9% 54 5.0% 2 33.3% 128 2.7% 1.9% 54 5.0% 2 33.3% 128 2.7% 1.9% 54 5.0% 2 33.3% 128 2.7% 1.9% 54 5.0% 2 33.3% 128 2.7% 1.9% 54 5.0% 2 33.3% 128 2.7% 1.9% 1.2%		Unbelted	114	2.1%	119	8.2%	9	69.2%	242	3.6%
50-54 Belted 3,652 98.1% 1,017 95.0% 4 66.7% 4,673 97.3% 55-59 Belted 2,684 98.0% 785 93.5% 5 38.5% 3,474 96.7% 55-59 Belted 2,684 98.0% 55 6.5% 8 61.5% 117 3.3% 60-64 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 60-64 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 0-64 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 0-65-69 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% 75-79 Belted 969 98.0%	45-49	Belted	4,408	97.9%	1,191	93.0%	5	50.0%	5,604	96.7%
Unbelted 72 1.9% 54 5.0% 2 33.3% 128 2.7%		Unbelted	94	2.1%	90	7.0%	5	50.0%	189	3.3%
55-59 Belted 2,684 98.0% 785 93.5% 5 38.5% 3,474 96.7% Unbelted 54 2.0% 55 6.5% 8 61.5% 117 3.3% 60-64 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 0-64 Unbelted 39 2.0% 35 5.8% 5 55.6% 79 3.0% 65-69 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 65-69 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% 80-84 Belted 593 98.0% 211	50-54	Belted	3,652	98.1%	1,017	95.0%	4	66.7%	4,673	97.3%
Unbelted 54 2.0% 55 6.5% 8 61.5% 117 3.3% 60-64 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 0-65-69 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% 85+ Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4		Unbelted	72	1.9%	54	5.0%	2	33.3%	128	2.7%
60-64 Belted 1,948 98.0% 564 94.2% 4 44.4% 2,516 97.0% 65-69 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% 85+ Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85-4 Belted 593 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 12 2.0% 14 6.2% 2	55-59	Belted	2,684	98.0%	785	93.5%	5	38.5%	3,474	96.7%
Unbelted 39 2.0% 35 5.8% 5 55.6% 79 3.0% 65-69 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% Unbelted 25 2.0% 15 4.0% 2 20.0% 42 2.6% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% Unbelted 20 2.0% 12 4.1% 1 33.3% 33 2.6% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6%		Unbelted	54	2.0%	55	6.5%	8	61.5%	117	3.3%
65-69 Belted 1,418 98.2% 425 95.7% 5 41.7% 1,848 97.3% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% Unbelted 25 2.0% 15 4.0% 2 20.0% 42 2.6% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% <td< td=""><td>60-64</td><td>Belted</td><td>1,948</td><td>98.0%</td><td>564</td><td>94.2%</td><td>4</td><td>44.4%</td><td>2,516</td><td>97.0%</td></td<>	60-64	Belted	1,948	98.0%	564	94.2%	4	44.4%	2,516	97.0%
Unbelted 26 1.8% 19 4.3% 7 58.3% 52 2.7% 70-74 Belted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% Unbelted 25 2.0% 15 4.0% 2 20.0% 42 2.6% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% Unbelted 20 2.0% 12 4.1% 1 33.3% 33 2.6% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4%		Unbelted	39	2.0%	35	5.8%	5	55.6%	79	3.0%
70-74 Belted Unbelted 1,210 98.0% 361 96.0% 8 80.0% 1,579 97.4% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% 80-84 Belted 20 2.0% 12 4.1% 1 33.3% 33 2.6% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 24.4% Unknown Belted 356 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%	65-69	Belted	1,418	98.2%	425	95.7%	5	41.7%	1,848	97.3%
Unbelted 25 2.0% 15 4.0% 2 20.0% 42 2.6% 75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% Unbelted 20 2.0% 12 4.1% 1 33.3% 33 2.6% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4%		Unbelted	26	1.8%	19	4.3%	7	58.3%	52	2.7%
75-79 Belted 969 98.0% 283 95.9% 2 66.7% 1,254 97.4% Unbelted 20 2.0% 12 4.1% 1 33.3% 33 2.6% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.	70-74	Belted	1,210	98.0%	361	96.0%	8	80.0%	1,579	97.4%
Unbelted 20 2.0% 12 4.1% 1 33.3% 33 2.6% 80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%		Unbelted	25	2.0%	15	4.0%	2	20.0%	42	2.6%
80-84 Belted 593 98.0% 211 93.8% 3 60.0% 807 96.6% Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%	75-79	Belted	969	98.0%	283	95.9%	2	66.7%	1,254	97.4%
Unbelted 12 2.0% 14 6.2% 2 40.0% 28 3.4% 85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%		Unbelted	20	2.0%	12	4.1%	1	33.3%	33	2.6%
85+ Belted 356 98.6% 115 87.8% 4 80.0% 475 95.6% Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%	80-84	Belted	593	98.0%	211	93.8%	3	60.0%	807	96.6%
Unbelted 5 1.4% 16 12.2% 1 20.0% 22 4.4% Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%		Unbelted	12	2.0%	14	6.2%	2	40.0%	28	3.4%
Unknown Belted 210 97.2% 51 89.5% 0 0.0% 261 95.6% Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%	85+	Belted	356	98.6%	115	87.8%	4	80.0%	475	95.6%
Unbelted 6 2.8% 6 10.5% 0 0.0% 12 4.4% Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%		Unbelted	5	1.4%	16	12.2%	1	20.0%	22	4.4%
Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%	Unknown	Belted	210	97.2%	51	89.5%	0	0.0%	261	95.6%
Total Belted 87,954 97.3% 20,691 88.8% 103 47.7% 108,748 95.4%		Unbelted	6	2.8%	6	10.5%	0	0.0%	12	4.4%
Unbelted 2,480 2.7% 2,616 11.2% 113 52.3% 5,209 4.6%	Total		87,954		20,691	88.8%	103			95.4%
		Unbelted	2,480	2.7%	2,616	11.2%	113	52.3%	5,209	4.6%

NOTE: Seatbelt use may be inflated due to over-reporting by the people involved in crashes.

- Overall, crash occupants aged 10 to 14 years had the highest percentage of being unbelted (7.4%).
- For injured crash occupants, persons aged 10 to 14 years were again the most likely to be unbelted (19.4%).
- For persons killed, crash occupants aged 10 to 14 years had the highest percentage of being unbelted (83.3%).

Seatbelt Use by Gender of Crash Occupants (Utah 2003)

	Persons											
		Non-Injured	Persons	Injured P	Persons	Persons	Killed	Total Persons				
Gender	Seatbelt Use	#	%	#	%	#	%	#	%			
F	Belted	39,806	97.7%	12,102	90.9%	53	58.9%	51,961	96.0%			
	Unbelted	938	2.3%	1,214	9.1%	37	41.1%	2,189	4.0%			
M	Belted	48,049	96.9%	8,573	85.9%	50	39.7%	56,672	94.9%			
	Unbelted	1,537	3.1%	1,402	14.1%	76	60.3%	3,015	5.1%			
Unknown	Belted	99	95.2%	16	100.0%	0	0.0%	115	95.8%			
	Unbelted	5	4.8%	0	0.0%	0	0.0%	5	4.2%			
Total	Belted	87,954	97.3%	20,691	88.8%	103	47.7%	108,748	95.4%			
	Unbelted	2,480	2.7%	2,616	11.2%	113	52.3%	5,209	4.6%			

NOTE: Seatbelt use may be inflated due to over-reporting by the people involved in crashes.

- Overall, female (96.0%) and male crash occupants (94.9%) reported similar seatbelt use.
- For injured crash occupants, reported seatbelt use was greater for females (90.9%) than for males (85.9%).
- For persons killed, female crash occupants had higher seatbelt use (58.9%) than male crash occupants (39.7%). In fact, the majority of male occupants killed in a crash were unbelted (60.3%).
- In addition, reported seatbelt use for fatalities was almost half of that reported for total crash occupants regardless of gender.

Seatbelt Use by Occupant Placement (Utah 2003)

			Persons						
		Non-Injured	Persons	Injured P	ersons	Persons	Killed	Total Persons	
Occupant Placement	Seatbelt Use	#	%	#	%	#	%	#	%
Driver	Belted	59,548	97.5%	13,937	90.9%	62	50.4%	73,547	96.1%
	Unbelted	1,513	2.5%	1,398	9.1%	61	49.6%	2,972	3.9%
Front Seat Passenger	Belted	15,370	96.4%	4,484	86.3%	27	54.0%	19,881	93.9%
	Unbelted	570	3.6%	709	13.7%	23	46.0%	1,302	6.1%
Back Seat Passenger	Belted	13,036	97.0%	2,270	81.7%	14	32.6%	15,320	94.2%
	Unbelted	397	3.0%	509	18.3%	29	67.4%	935	5.8%
Total	Belted	87,954	97.3%	20,691	88.8%	103	47.7%	108,748	95.4%
	Unbelted	2,480	2.7%	2,616	11.2%	113	52.3%	5,209	4.6%

NOTE: Seatbelt use may be inflated due to over-reporting by the people involved in crashes.

• Reported seatbelt use did not vary substantially by seating location. Among all occupants, drivers reported the highest seatbelt use (96.1%) compared to persons in other seating locations.

Air Bags and Seatbelt Use (Utah 2003)

	Persons (Whose Airbag Deployed)										
		Non-Injured	Persons	Injured P	ersons	Persons	s Killed	Total Persons			
Age	Seatbelt Use	#	%	#	%	#	%	#	%		
0-4	Belted	22	100.0%	16	84.2%	0	0.0%	38	90.5%		
	Unbelted	0	0.0%	3	15.8%	1	100.0%	4	9.5%		
5-9	Belted	9	81.8%	8	100.0%	0	0.0%	17	89.5%		
	Unbelted	2	18.2%	0	0.0%	0	0.0%	2	10.5%		
10-14	Belted	23	95.8%	16	84.2%	0	0.0%	39	90.7%		
	Unbelted	1	4.2%	3	15.8%	0	0.0%	4	9.3%		
15-19	Belted	198	93.0%	256	86.2%	0	0.0%	454	88.8%		
	Unbelted	15	7.0%	41	13.8%	1	100.0%	57	11.2%		
20-24	Belted	210	93.8%	225	87.5%	0	0.0%	435	90.1%		
	Unbelted	14	6.3%	32	12.5%	2	100.0%	48	9.9%		
25-29	Belted	132	96.4%	129	89.0%	5	100.0%	266	92.7%		
	Unbelted	5	3.6%	16	11.0%	0	0.0%	21	7.3%		
30-34	Belted	65	94.2%	94	86.2%	1	100.0%	160	89.4%		
	Unbelted	4	5.8%	15	13.8%	0	0.0%	19	10.6%		
35-39	Belted	46	95.8%	79	92.9%	1	33.3%	126	92.6%		
	Unbelted	2	4.2%	6	7.1%	2	66.7%	10	7.4%		
40-44	Belted	74	96.1%	69	97.2%	0	0.0%	143	96.0%		
	Unbelted	3	3.9%	2	2.8%	1	100.0%	6	4.0%		
45-49	Belted	45	95.7%	62	92.5%	0	0.0%	107	93.9%		
	Unbelted	2	4.3%	5	7.5%	0	0.0%	7	6.1%		
50-54	Belted	35	100.0%	59	96.7%	1	50.0%	95	96.9%		
	Unbelted	0	0.0%	2	3.3%	1	50.0%	3	3.1%		
55-59	Belted	23	100.0%	50	94.3%	1	50.0%	74	94.9%		
	Unbelted	0	0.0%	3	5.7%	1	50.0%	4	5.1%		
60-64	Belted	20	95.2%	30	90.9%	1	50.0%	51	91.1%		
	Unbelted	1	4.8%	3	9.1%	1	50.0%	5	8.9%		
65-69	Belted	16	100.0%	32	97.0%	0	0.0%	48	94.1%		
	Unbelted	0	0.0%	1	3.0%	2	100.0%	3	5.9%		
70-74	Belted	15	100.0%	25	89.3%	1	100.0%	41	93.2%		
	Unbelted	0	0.0%	3	10.7%	0	0.0%	3	6.8%		
75-79	Belted	8	100.0%	23	92.0%	0	0.0%	31	93.9%		
	Unbelted	0	0.0%	2	8.0%	0	0.0%	2	6.1%		
80-84	Belted	8	100.0%	17	94.4%	1	100.0%	26	96.3%		
	Unbelted	0	0.0%	1	5.6%	0	0.0%	1	3.7%		
85+	Belted	3	100.0%	11	100.0%	1	50.0%	15	93.8%		
	Unbelted	0	0.0%	0	0.0%	1	50.0%	1	6.3%		
Unknown	Belted	1	100.0%	6	100.0%	0	0.0%	7	100.0%		
	Unbelted	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
Total	Belted	953	95.1%	1,207	89.7%	13	50.0%	2,173	91.6%		
	Unbelted	49	4.9%	138	10.3%	13	50.0%	200	8.4%		

NOTE: Seatbelt use may be inflated due to over-reporting by the people involved in crashes.

- The above table shows the age of crash occupants whose air bag deployed and the percentage of belt use.
- A majority of the total (91.6%) and injured occupants (89.7%) whose air bag deployed were wearing a seatbelt. However, only half (50.0%) of the persons killed whose air bag deployed were wearing a seatbelt.
- Airbags are a supplemental safety device, and were designed to be used with a seatbelt. Therefore, airbags are most effective when used in conjunction with a seatbelt.

Children and Restraint Use

Restraint Use for Children Age 0 to 8 Years by Seating Location (Utah 2003)

			Chil	dren					
		Children A	Ages 0-1	Children A	Ages 2-4	Children A	Ages 5-8	Total Children	
Seating Location	Restraint Use	#	%	#	%	#	%	#	%
Front Middle Seat	Child Safety Seat	23	76.7%	25	36.8%	5	4.4%	53	25.0%
	Other Belted	4	13.3%	37	54.4%	98	86.0%	139	65.6%
	Unbelted	3	10.0%	6	8.8%	11	9.6%	20	9.4%
Front Right Seat	Child Safety Seat	56	76.7%	97	43.7%	36	5.3%	189	19.4%
	Other Belted	14	19.2%	116	52.3%	610	90.0%	740	76.1%
	Unbelted	3	4.1%	9	4.1%	32	4.7%	44	4.5%
Back Seat	Child Safety Seat	1,573	87.6%	2,198	70.9%	443	14.5%	4,214	52.9%
	Other Belted	205	11.4%	856	27.6%	2,500	81.6%	3,561	44.7%
	Unbelted	18	1.0%	46	1.5%	120	3.9%	184	2.3%
Total	Child Safety Seat	1,652	87.0%	2,320	68.4%	484	12.6%	4,456	48.7%
	Other Belted	223	11.7%	1,009	29.8%	3,208	83.2%	4,440	48.6%
	Unbelted	24	1.3%	61	1.8%	163	4.2%	248	2.7%

- The above table shows that as children's age increased, so did their likelihood to be unbelted. The unbelted percentage for children aged 0 to 1 years was 1.3%, while the unbelted percentage for children aged 5 to 8 years was 4.2%.
- The majority of children aged 0 to 1 years (87.0%) were in a child safety seat at the time of the crash, compared to 68.4% of 2 to 4 year olds, and 12.6% of 5 to 8 year olds.
- Children aged 0 to 1 years were 3 times more likely to be in a child safety seat than children between the ages of 2 to 4 years.
- The decrease in child safety seat use for children aged 2 to 4 years and 5 to 8 years is concerning. The
 National Highway Traffic Safety Administration recommends that older children ride in belt-positioning booster
 seats until they are approximately 80 pounds and can use an adult-size lap and shoulder belt system. The
 percentages of child safety seat use in the above table indicate that children are often moved to adult-sized
 seatbelts prematurely.